Please type a plus sign (+) inside this box → [+]

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	09/856,230
Filing Date	May 17, 2001
First Named Inventor	Stanley B. Prusiner
Group Art Unit	To Be Assigned
Examiner Name	To Be Assigned
Attorney Docket Number	UCAL056CIP4

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Documents Number	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, columns, lines, Where Relevant Passages or Relevant Figures Appear
AMa	Aa	5,565,186		Prusiner et al.	10-15-1996	
AMa	AB	5,763,740		Prusiner et al.	06-09-1998	
AMa	AC	5,792,901		Prusiner et al.	08-11-1998	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Documents Office[3]	Number[4]	Kind Code[5] (if known)	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
AMa	AD		WO 97/04814		Prusiner et al.	02-13-1997		

OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
AMa	AE	GABIZON et al., "Of mice and (mad) cows - transgenic mice helpt to understand prions," July 1997, *TIG* 13(7):264-268	
	AF	PRUSINER, STANLEY B., "Prions," November 1998, *Proc. Natl. Acad. Sci. USA*, 95:13363-13383	
	AG	PRUSINER, STANLEY B., "Molecular biology and pathogenesis of prion diseases" December 1996, *TIBS* 21:482-487	
	AH	SCOTT et al., "Identification of a prion protein epitope modulating transmission of bovine spongiform encephalopathy prions to transgenic mice," December 1997, *Proc. Natl. Acad. Sci. USA* 94:14279-14284	
AMa	AI	TELLING et al., "Interactions between wild-type and mutant prion proteins modulate neurodegeneration in transgenic mice," 1996, *Genes & Development*, 10:1736-1750	

Examiner Signature	Anne-Marie Falk	Date Considered	9/25/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1]Unique citation designation number. [2]Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

SUPPLEMENTAL INFORMATION DISCLOSURE CITATION Form PTO-1449 (Modified) *(Use several sheets if necessary)*	ATTY. DOCKET NO. UCAL056CIP4	SERIAL NO. 09/856,230
	APPLICANT Stanley B. Prusiner	
	FILING DATE May 17, 2001	GROUP 1632 Unassigned

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
Am 2	AA	5,237,056	8/17/1993	Fischbach	536	23	

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
Am 2	AB	WO 91/19810	12/22/1991	WO				
Am 2	AC	WO 93/10227	05/271995	WO				

OTHER ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

Am 2	AD	Baker, H.F., et al. "Aminoacid Polymorphism in Human Prion Protein and Age at Death in Inherited Prion Disease," Lancet (1991) 337:1286.
	AE	Barry, R.A., et al., "Monoclonal Antibodies to the Cellular and Srapie Prion Proteins," J. Infect. Dis. (1986) 154(3):518-521.
	AF	Basler et al., "Scrapie and Cellular PrP Isoforms Are Encoded by the Same Chromosomal Gene," Cell, (1986) 46:417-28.
	AG	Berger, J.R., et al., "Creutzfeldt-Jakob disease in a physician: A review of the disorder in health care workers", Neurology, (1993) 43:205-206.
	AH	Bolton et al., "Identification of a Protein That Purifies with the Scrapie Prion," Science (1982) 218: 1309-11.
	AI	Bradley et al., May 1992, "Modifying the mouse: Design and Desire", Biotechnology 10:534-539.
	AJ	Brown et al., "Friendly Fire in Medicine: Hormones, Homografts, and Cruetzfeldt-Jakob Disease," Lancet (1992) 340: 24-27.
	AK	Buchanan et al., "Mortality, Neoplasia, and Creutzfeld-Jakob Disease in Patients Treated with Human Pituitary Growth Hormone in the United Kingdom", BMJ (1991) 302:824-828.
	AL	Bueler et al., "Mice Devoid of PrP are Resistant to Scrapie," Cell (1993) 73:1339-1347.
	AM	Bueler et al., "Normal Development and Behavior of Mice Lacking the Neuronal Cell-surface PrP Protein," Nature (1992) 356:577-582.
	AN	Carlson et al., "Linkage of Protein and Scrapie Incubation Time Genes," Cell (1986) 46:503-511.
↓	AO	Caughey et al. In vitro expression in eukaryotic cells of a prion protein gene cloned from scrapie-infected mouse brain. Proc. Natl. Acad. Sci. USA 85:4657-4661, Jul. 1988.
Am 2	AP	Chandler, "Encephaolpathy in Mice Produced by Inoculation with Scrapie Brain Material," Lancet (1961) 1:1378-79.

EXAMINER Anne-Marie Falk	DATE CONSIDERED 9/25/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SUPPLEMENTAL INFORMATION DISCLOSURE CITATION Form PTO-1449 (Modified) *(Use several sheets if necessary)*	ATTY. DOCKET NO. UCAL056CIP4	SERIAL NO. 09/856,230
	APPLICANT Stanley B. Prusiner	
	FILING DATE May 17, 2001	GROUP 1632 Unassigned

Am2	AQ	Cochius et al, "Creutzfeldt-Jakob Disease in a Recipient of Human Pituitary-Derived Gonadotrophin: A Second Case," J. Neurol. Neurosurg. Psychiatry (1992) 55:1094-1095.
	AR	Cochius et al., "Creutzfeldt-Jakob Disease in a Recipient of Human Pituitary-Derived Gonadotrophin," Aust. N.Z. J. Med. (1990) 20:592-593.
	AS	Collinge et al., "Genetic Predisposition to Iatrogenic Creutzfeldt-Jakob Disease," Lancet (1991) 337:1441-1442.
	AT	Cousens, S.N., et al., "Geographical distribution of cases of Creutzfeldt-Jakob disease in England and Wales 1970-84", J. Neurol. Neurosurg. Psychiatry (1990) 53:459-465.
	AU	Farlie, P.G., et al., "bcl-2 Transgene expression can protect neurons against developmental and induced cell death", Proc. Natl. Acad. Sci. USA (1995) 92:4397-4401.
	AV	Gabriel et al., "Molecular Cloning of a Candidate Chicken Prion Protein," Proc. Natl. Acad. Sci. USA (1992) 89:9097-9101.
	AW	Gajdusek, D.C., "Unconventional Viruses and the Origin and Disappearance of Kuru," Science (1977) 197:943-960.
	AX	Gibbs, Jr. et al., "Creutzfeldt-Jakob Disease Infectivity of Growth Hormone Derived from Human Pituitary Glands," N.Eng. J. Med. (1993) 328:358-359.
	AY	Goldfarb et al, "Fatal Familial Insomnia and Familial Creutzfeldt-Jakob Disease: Disease Phenotype Determined by a DNA Polymorphism," Science (1992) 258:806-808.
	AZ	Goldmann et al., "Different Forms of the Bovine PrP Gene Have Five or Six Copies of a Short, G-C Rich Element within the protein-coding Exon," J. Gen. Virol. (1991) 72:201-204.
	BA	Goldmann et al., "Two Alleles of a Neural Protein Gene Linked to Scrapie in Sheep," Proc. Natl. Acad. Sci. USA (1990) 87:2476-2480.
	BB	Hammer et al. Spontaneous inflammatory disease in transgenic rats expressing HLA-B27 and human B2m: An animal model of HLA-B27-associated human disorders. Cell 63: 1099-1112, Nov. 1990.
	BC	Harris et al., "A Prion-like Protein from Chicken Brain Copurifies with an Acetylcholine Receptor-Inducing Activity," Proc. Natl. Acad. Sci. USA (1991) 88:7664-7668.
	BD	Hasty, P., et al., "Introduction of a subtle mutation into the Hox-2.6 locus in embryonic stem cells", Nature (1991) 350:243-246.
	BE	Healy et al., "Creutzfeldt-Jakob Disease After Pituitary Gonadotrophins: The Prion Is the Problem," BMJ (1993) 307:517-518.
	BF	Hecker et al., "Replication of Distinct Scrapie Prion Isolates is Region Specific in Brains of Transgenic Mice and Hamsters," Genes Dev. (1992) 6:1213-1228.
	BG	Hsaio et al., "A Prion Protein Variant in a Family with the Telencephalic Form of Gerstmann-Strussler-Scheinker Syndrome," Neurology (1991) 41:681-684.
	BH	Hsaio et al., "Inherited Human Prion Diseases," Neurology (1990) 40:1820-1827.
	BI	Hsaio et al., "Linkage of a Prion Protein Missense Variant to Gerstmann-Straussler Syndrome," Nature (1989) 383:342-345.
	BJ	Kascsak, R.J., et al., "Mouse Polyclonal and Monoclonal Antibody to Scrapie-Associated Fibril Proteins," J. Virol. (1987) 61(12):3688-3693.
Am2	BK	Koch et al., "Creutzfeldt-Jakob Disease in a Young Adult with Idiopathic Hypopituitarism," N. Engl. J. Med. (1985) 313:731-733.

EXAMINER	Anne-Marie Falk	DATE CONSIDERED	9/25/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SUPPLEMENTAL INFORMATION DISCLOSURE CITATION Form PTO-1449 (Modified) *(Use several sheets if necessary)*	ATTY. DOCKET NO. UCAL056CIP4	SERIAL NO. 09/856,230
	APPLICANT Stanley B. Prusiner	
	FILING DATE May 17, 2001	GROUP 1632 ~~Unassigned~~

AMJ	BL	Kretzschmar et al., "Molecular Cloning of a Human Prion Protein cDNA," DNA (1986) 5:315-324.
	BM	Kretzschmar et al., "Molecular Cloning of a Mink Prion Protein Gene," J.Gen.Virol. (1992) 73:2757-2761.
	BN	Lasmezas et al.,"Recombinant Human Growth Hormone and Insulin-Like Growth Factor I Induce PRP Gene Expression in PC12 Cell," Biochem. Biophys. Res.Commun. (1993) 196:1163-1169.
	BO	Locht et al., "Molecular Cloning and Complete Sequence of Prion Protein cDNA from Mouse Brain Infected with the Scrapie Agent," Proc. Natl. Acad. Sci. USA (1986) 83:6372-6276.
	BP	Manuelidis et al., "Interspecies Transmission of Creutzfeldt-Jakob Disease to Syrian Hamsters with Reference to Clinical Syndromes and Strain of Agent," Proc. Natl. Acad. Sci USA (1978) 75:3432-3436.
	BQ	Manuelidis et al., "Serial Propagation of Creutzfeldt-Jakob Disease in Guinea Pigs," Proc. Natl. Acad. Sci. USA (1976) 73:223-227.
	BR	Martin et al., "Direct sequencing of PCR amplifed pig PrP genes," Biochimica et Biophysica Acta 1270(2-3): 211-214, 1995.
	BS	McKinley et al, "A Protease-Resistant Protein is a Structural Component of the Scrapie Prion," Cell (1983) 35:57-62.
	BT	Medori et al., "Fatal Familial Insomia, a Prion Disease with a Mutation at Codon 178 of the Prion Protein Gene," N. Engl.J. Med. (1992) 326:444-449.
	BU	Muramoto, T., et al., "The Sequential Development of Abnormal Prion Protein Accumulation in Mice with Creuzfeldt-Jakob Disease," Am. J. Pathol. (1992) 140(6):1411-1420.
	BV	Nisbet et al., "Creutzfeldt-Jakob Disease in a Second Patient Who Received a Cadaveric Dura mater Graft," J.Am. Med.Assoc. (1989) 261:1118.
	BW	Palmer, M.S., et al., "Homozygous Prion Protein Genotype Predisposes to Sporadic Creutzfeldt-Jakob Disease", Nature (1991) 352:340-342.
	BX	Pan, K.M., et al., "Conversion of .beta.-sheets features in the formation of the scrapie prion proteins", Proc. Natl. Acad. Sci. USA (1993) 90:10962-10966.
	BY	Patel, "France Reels at Latest Medical Scandal," New Scientist, Jul. 31, 1993, p. 4.
	BZ	Patel, "Placenta Donors to be Screened for Brain Disease," New Scientist, Nov. 20, 1993, p. 10.
	CA	Prusiner et al., "Ablation of the Prion Protein (PrP) Gene in Mice Prevents Scrapie and Facilitates Production of Anti-PrP Antibodies," Proc. Natl. Acad. Sci. USA-(1993) 90:10608-10612.
	CB	Prusiner et al., "Further Purification and Characterization of Scrapie Prions," Biochemistry (1982) 21:2942-50.
	CC	Prusiner et al., "Measurement of the Scrapie Agent Using an Incubation Time Interval Assay," Annals. Neurol. (1982) 11(4):353-358.
AMJ	CD	Prusiner et al., "Molecular Biology of Prion Diseases," Science (1991) 252:1515-1522.

EXAMINER Anne-Marie Falk	DATE CONSIDERED 9/25/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SUPPLEMENTAL INFORMATION DISCLOSURE CITATION Form PTO-1449 (Modified) *(Use several sheets if necessary)*	ATTY. DOCKET NO. UCAL056CIP4	SERIAL NO. 09/856,230
	APPLICANT Stanley B. Prusiner	
	FILING DATE May 17, 2001	GROUP 1632 ~~Unassigned~~

AM2	CE	Prusiner et al., "Prion Diseases and Neurodegeneration," Ann.Rev.Neurosci. (1994) 17:311-339.
	CF	Prusiner et al., "Transgenic Studies Implicate Interactions Between Homologous PrP Isoforms in Scrapie Prion Replication," Cell (1990) 63:673-686.
	CG	Prusiner, S.B. "Molecular Biology of Prions Causing Infectious and Genetic Encephalopathies of Humans as well as Scrapie of Sheep and BSE of Cattle." Develop. Biol. Standard. (1991) vol. 75, pp. 55-74, especially p. 65.
	CH	Prusiner, S.B., et al., "Immunologic and Molecular Biological Studies of Prion Proteins in Bovine Spongiform Encephalopathy," J. Infect. Dis. (1993) 167:602-613.
	CI	Prusiner, S.B., et al., "Scrapie Prions Aggregate to Form Amyloid-like Birefringent Rods," Cell (1983) 35:349-358.
	CJ	Raeber et al., "Attempts to Convert the Cellular Prion Protein into the Scrapie Isoform in Cell-Free Systems," J. Virol. (1992) 66:6155-6163.
	CK	Ridley et al., Lancet Occupational Risk of Creuzfeldt-Jakob Disease, (1993) 341:641-2.
	CL	Rogers, M. et al., "Epitope Mapping of the Syrian Hamster Prion Protein Utilizing Chimeric and Mutant Genes in a Vaccinia Virus Expression System," J. Immunol. (1991) 147(10):3568-3574.
	CM	Scott et al, "Chimeric Prion Protein Expression in Cultured Cells and Transgenic Mice," Protein Sci. (1992) 1:986-97.
	CN	Scott et al, "Propagation of Prions with Artificial Properties in Transgenic Mice Expressing Chimeric PrP Genes," Cell (1993) 73:979-988.
	CO	Scott et al. Transgenic mice expressing hamster prion protein produce species-specific scrapie infectivity and amyloid plaques. Cell 59: 847-857, Dec. 1989.
	CP	Scott, M., et al, "Transgenic Mice Expressing Hamster Prion Protein Produce Species-Specific Infectivity and Amyloid Plaques," Cell (1989) 59:847-857.
	CQ	Serban, D., et al. "Rapid detection of Creutzfeldt-Jakob disease and scrapie prion proteins", Neurology (1990) 40:110-117.
	CR	Stahl et al., "Glycosylinositol Phospholipid Anchors of the Scrapie and Cellular Prion Proteins Contain Sialic Acid," Biochemistry (1992) 31:5043-5053.
	CS	Taraboulos et al., "Regional Mapping of Prion Proteins in Brain," Proc. Natl. Acad. Sci. USA (1992) 89:7620-7624.
	CT	Tateishi et al.,"Transmission of Chronic Spongiform Encephalopathy with Kuru Plaques from Humans to Small Rodents," Ann.Neurol. (1979) 5:581-584.
	CU	Tateishi, J. et al., "Developments in Diagnosis for Prion Diseases," Br. Med. Bull. (1993) 49(4):971-979.
	CV	Telling et al., "Transmission of Creutzfeldt-Jakob Disease from Humans to Transgenic Mice Expressing Chimeric Human-Mouse Prion Protein," 1994. Proc. Natl. Acad. Sci. USA 91:9936-9940
	CW	Telling, G.C. et al. "Prion Propagation in Mice Expressing Human and Chimeric PrP Transgenes Implicates the Interaction of Cellular PrP with Another Protein." Cell Oct. 6, 1995, vol. 83, pp. 79-90, especially p. 84.
AM2	CX	Thadani et al., "Creutzfeldt-Jakob Disease Probably Acquired From a Cadaveric Dura Mater Graft," J. Neurosurg. (1988) 69:766-769.

EXAMINER Anne-Marie Falk	DATE CONSIDERED 9/25/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SUPPLEMENTAL INFORMATION DISCLOSURE CITATION Form PTO-1449 (Modified) *(Use several sheets if necessary)*	ATTY. DOCKET NO. UCAL056CIP4	SERIAL NO. 09/856,230
	APPLICANT Stanley B. Prusiner	
	FILING DATE May 17, 2001	GROUP 1632 ~~Unassigned~~

Amd	CY	Valancius, V. and Smithies, O., "Testing and "In-Out" Targeting Procedure for Making Subtle Genomic Modifications in Mouse Embryonic Stem Cells", Mol. Cell Biol. (1991) 11(3):1402-1408.
	CZ	Wall, RJ Transgenic livestock: Progress and prospects for the future. Theriogenology 45: 57-68, 1996.
	DA	Westaway et al., "Degeneration of Skeletal Muscle, Peripheral Nerves, and the Central Nervous System in Transgenic Mice Overexpressing Wild-Type Prion Proteins," Cell (1994) 76:117-129.
	DB	Westaway et al., Homozygosity for Prion Protein Alleles Encoding Glutamine-171 Renders Sheep Susceptible to Natural Scrapie,: Genes Dev. (1994) 8:959-969.
	DC	Wilesmith, J.W., "The epidemiology of bovine spongiform encephalopathy", Acad. Press. (1991) 2:239-245.
Amd	DD	Willison et al., "Creutzfeldt-Jakob Disease Following Cadaveric Dura Mater Graft," Neurosurg. Psychiatric (1991) 54:940.

EXAMINER Anne-Marie Falk	DATE CONSIDERED 9/25/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.